



孕龍科技股份有限公司
ZeroPlus Technology Co., Ltd.

SPECIFICATION

MODEL: B09014-LAP-CF 4.1-M

PART NO: _____

VERSION: **V1.00**

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to
ZeroPlus Technology after
signing .

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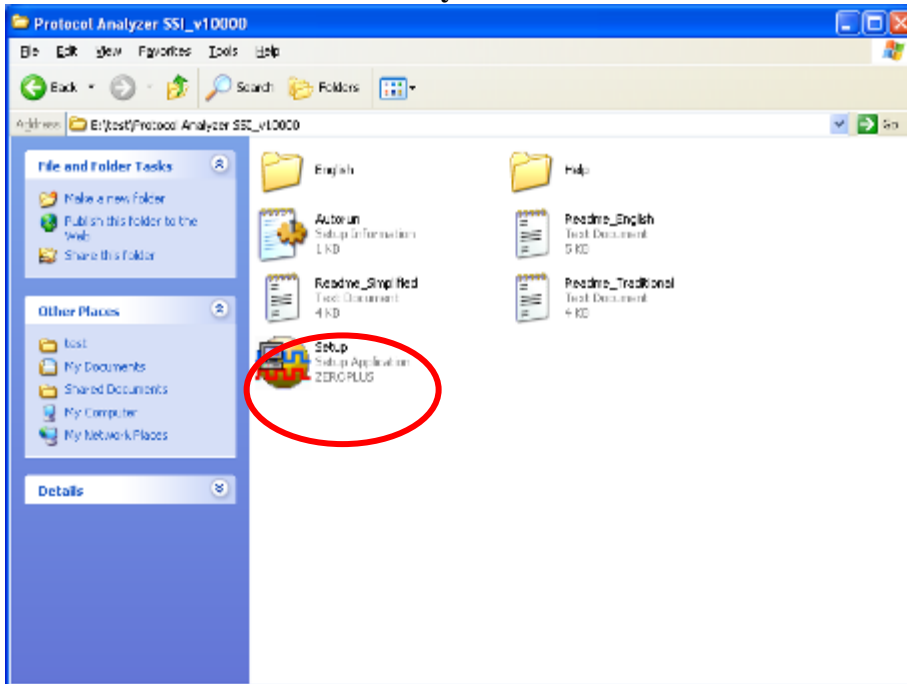
1. Software Installation

Please install the software as the following steps:

※ Remark: 1. The installation steps for all protocol analyzers are the same; you can complete the installation by following procedures. Following is an example on how to install protocol analyzer SSI.

※ Remark: 2. We won't have additional notice for you, when there is any modification of the module specification. If there is some unconformity caused by the module version upgrade, users should take the module software as the standard.

STEP 1. Install Protocol Analyzer Module.

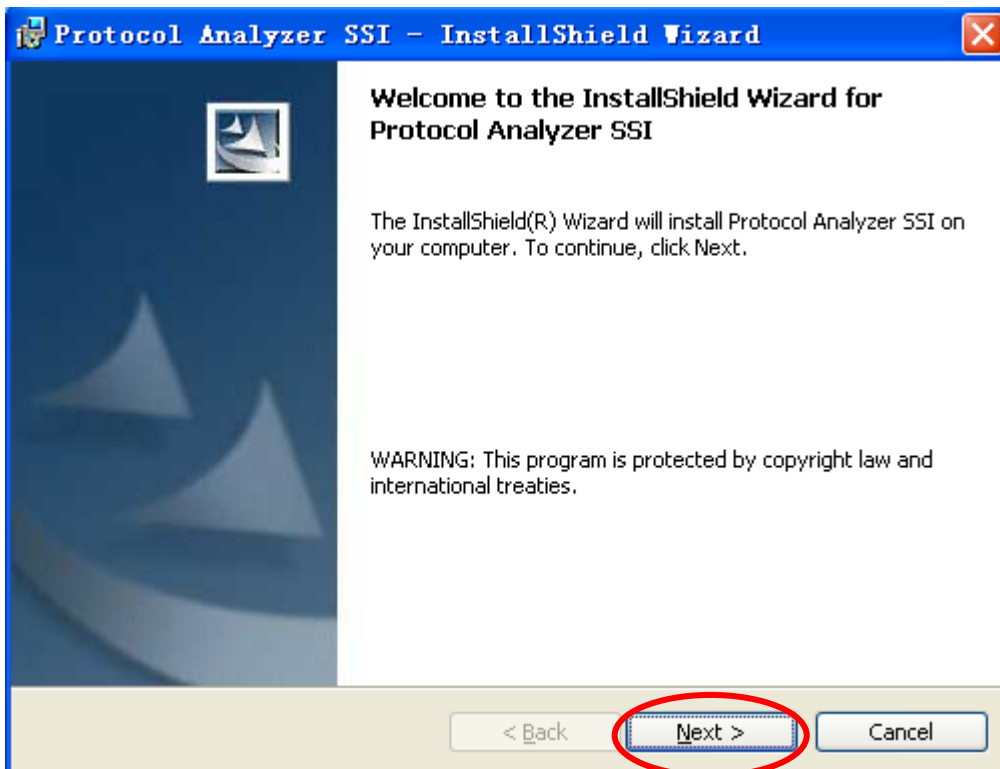


STEP 2. Click **Install**.

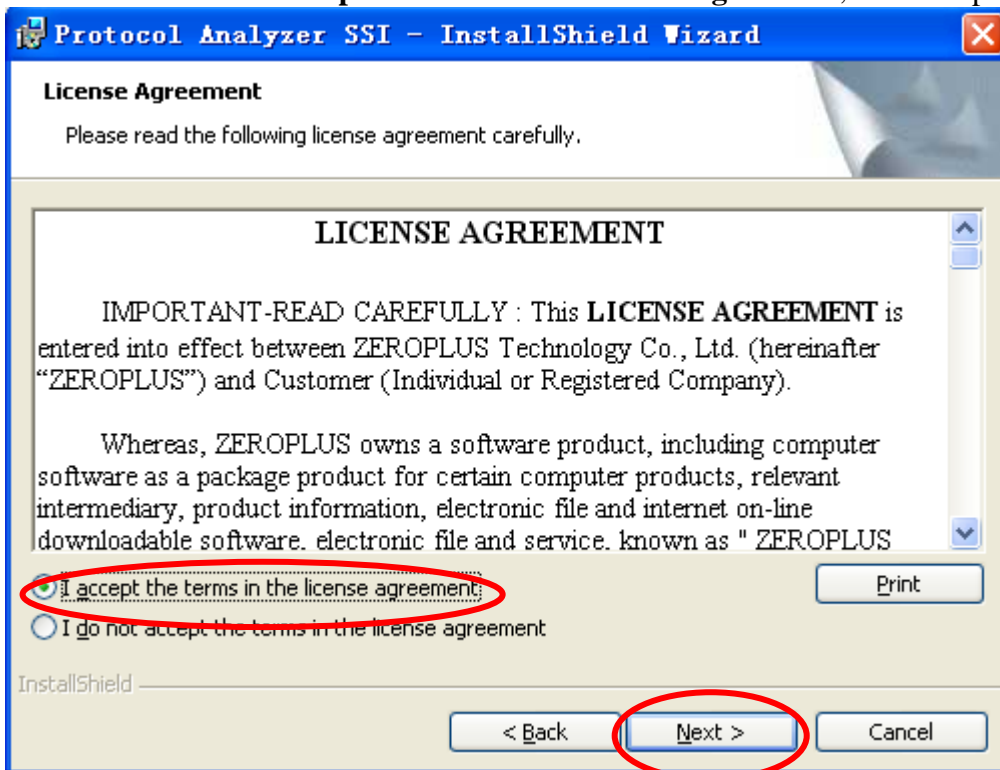




STEP 3. Click Next.



STEP 4. Select **I accept the terms in the license agreement**, and then press Next.





STEP 5. Fill in users' information in the below dialog box and click **Next**.

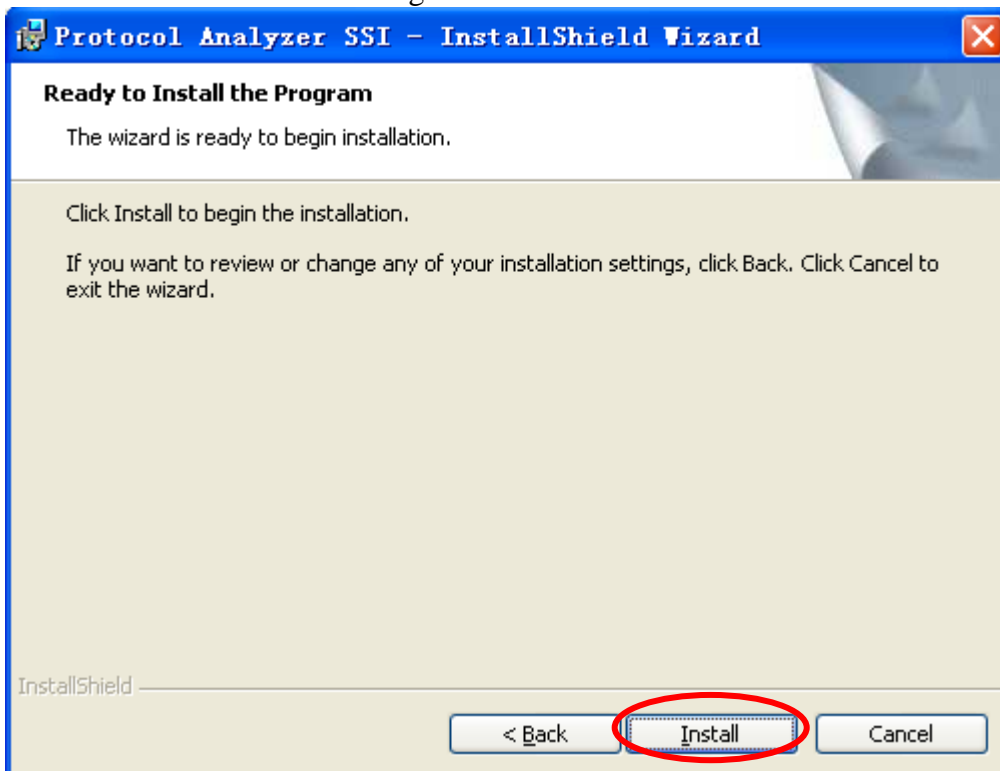
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It contains a section "Customer Information" with the instruction "Please enter your information." Below this are two text input fields: "User Name:" with the text "sunshine" and "Organization:" with the text "zeroplus". There are two radio button options under "Install this application for:": "Anyone who uses this computer (all users)" (selected) and "Only for me (sunshine)". At the bottom, there are three buttons: "< Back", "Next >" (circled in red), and "Cancel".

STEP 6. First, select **Complete** and then click **Next**.

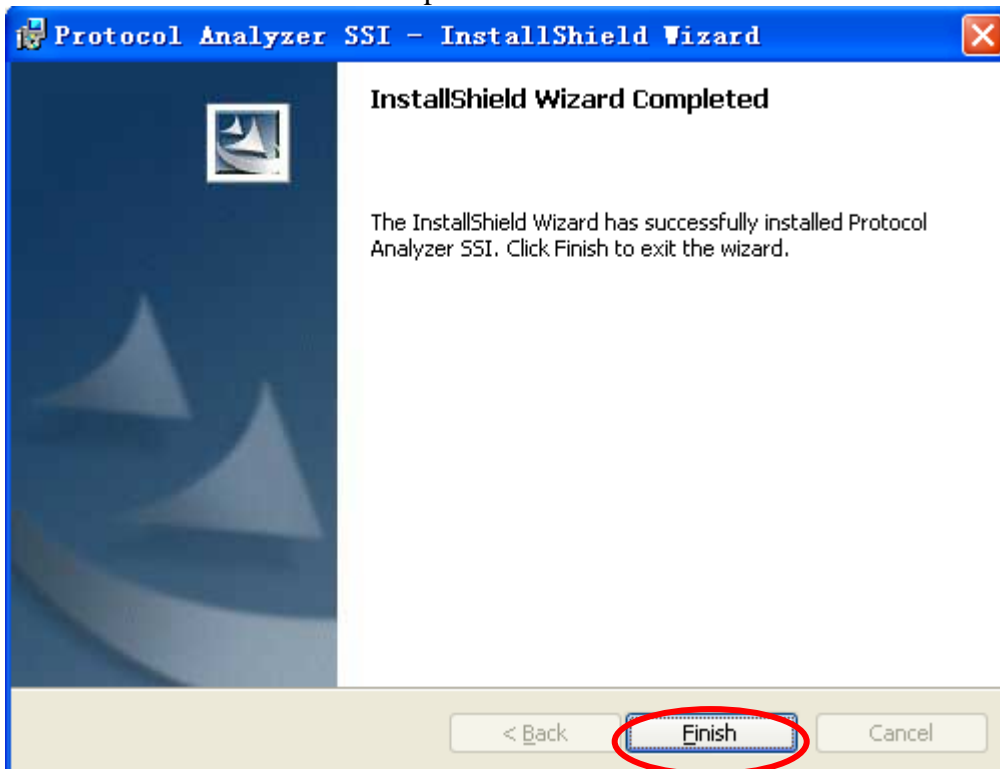
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It contains a section "Setup Type" with the instruction "Choose the setup type that best suits your needs." Below this is the text "Please select a setup type." There are two radio button options: "Complete" (selected) and "Custom". The "Complete" option has a description: "All program features will be installed. (Requires the most disk space.)" and is accompanied by a small icon of a computer with a red 'X'. The "Custom" option has a description: "Choose which program features you want installed and where they will be installed. Recommended for advanced users." and is accompanied by a small icon of a computer with a red 'X'. At the bottom, there are three buttons: "< Back", "Next >" (circled in red), and "Cancel".



STEP 7. Click **Install** to begin the installation.



STEP 8. Click **Finish** to complete the installation.

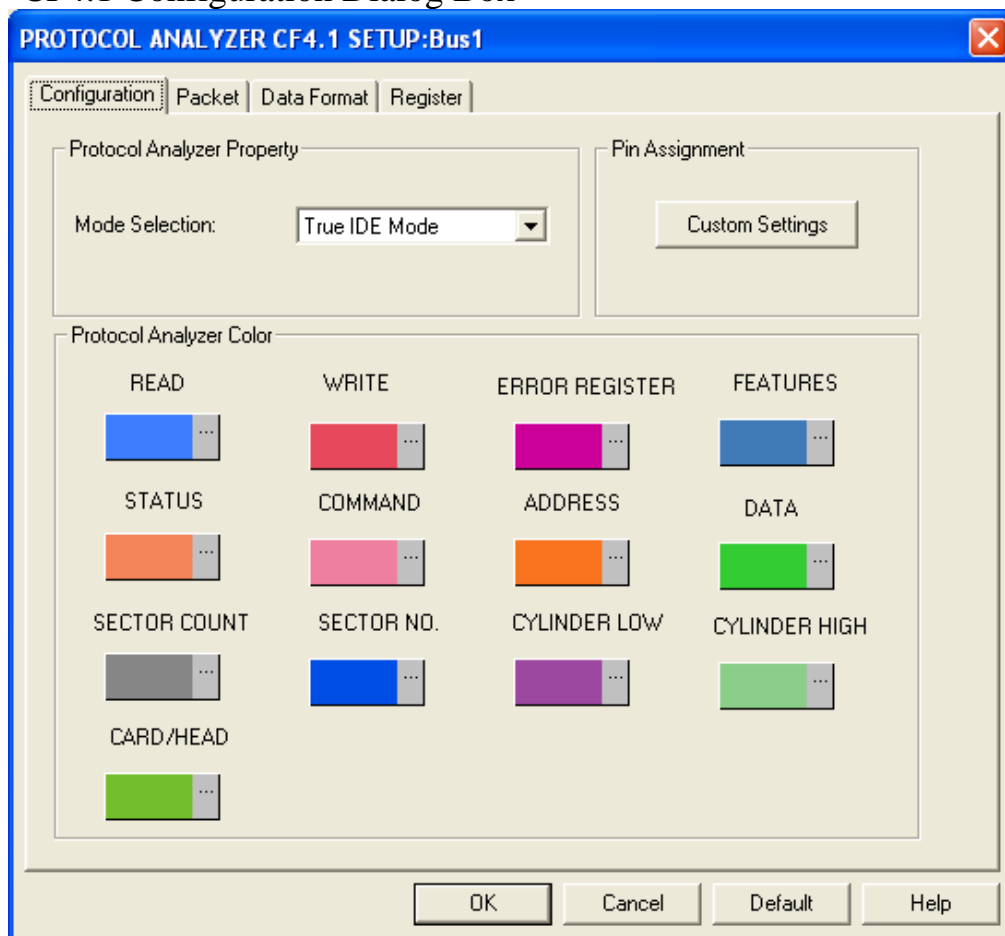




2 User Interface

In the configuration, please refer to the below images to select options of setting CF4.1 module.

CF4.1 Configuration Dialog Box



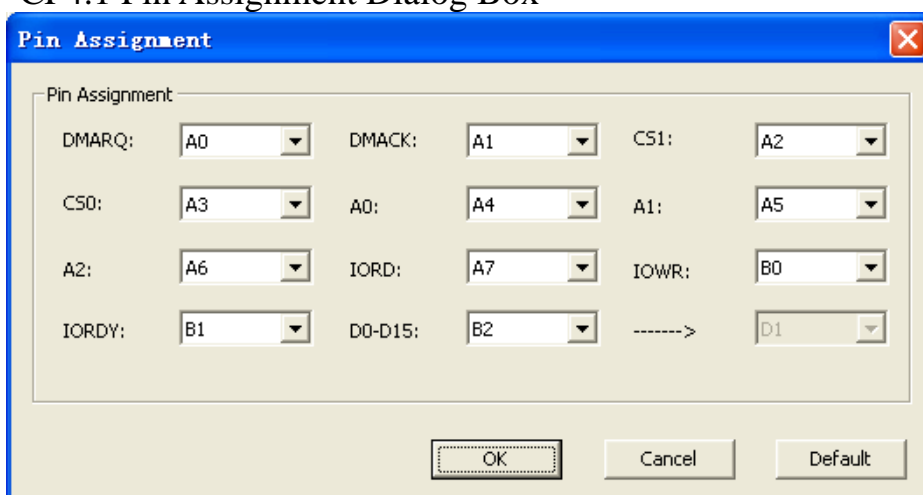
Protocol Analyzer Property: At present, there is only one option, True IDE Mode, for users to select in the Mode Selection.

Protocol Analyzer Color: The **Protocol Analyzer Color** can be varied by users.

Pin Assignment: Click the “Custom Settings” to enter the Pin Assignment dialog box. It needs 26 channels to decode the signal of the True IDE Mode, so users should select the Logic Analyzer with 32 channels or more to capture the signal, and the Logic Analyzer with 16 channels cannot be used. Users can only set the D0 channel for D0-D15 in the following interface, and the next 15 channels can be set automatically following the set D0 channel.



CF4.1 Pin Assignment Dialog Box

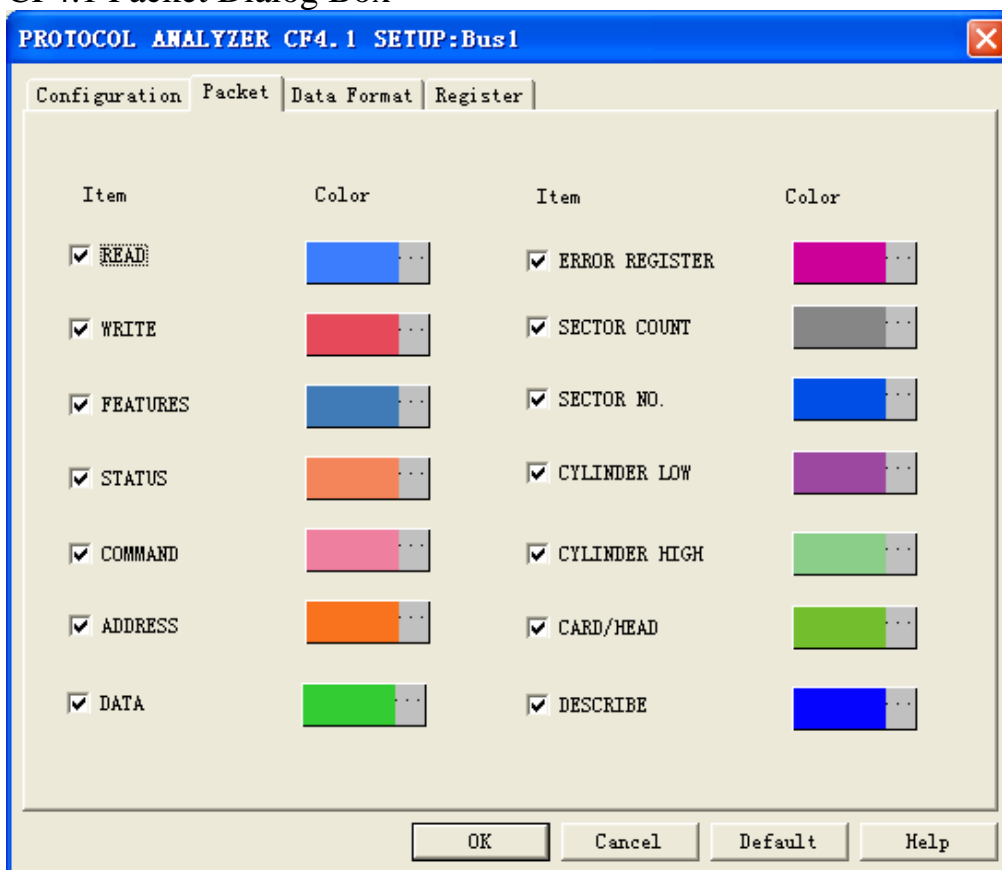


The Pin Assignment dialog box allows users to configure pin assignments for various signals. The signals and their assigned pins are as follows:

Signal	Pin
DMARQ:	A0
DMACK:	A1
CS1:	A2
CS0:	A3
A0:	A4
A1:	A5
A2:	A6
IORD:	A7
IOWR:	B0
IORDY:	B1
D0-D15:	B2
----->	D1

Buttons: OK, Cancel, Default

CF4.1 Packet Dialog Box



The Packet dialog box allows users to configure the packet part of the protocol analyzer. The Configuration tab is selected, showing a list of items and their corresponding colors.

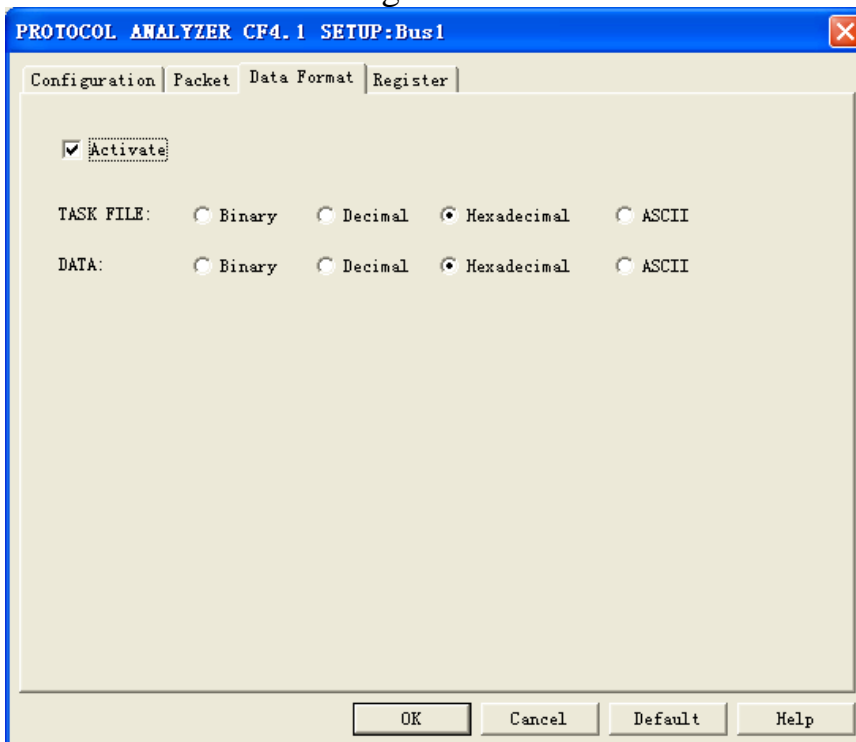
Item	Color
<input checked="" type="checkbox"/> READ	Blue
<input checked="" type="checkbox"/> WRITE	Red
<input checked="" type="checkbox"/> FEATURES	Blue
<input checked="" type="checkbox"/> STATUS	Orange
<input checked="" type="checkbox"/> COMMAND	Pink
<input checked="" type="checkbox"/> ADDRESS	Orange
<input checked="" type="checkbox"/> DATA	Green
<input checked="" type="checkbox"/> ERROR REGISTER	Pink
<input checked="" type="checkbox"/> SECTOR COUNT	Grey
<input checked="" type="checkbox"/> SECTOR NO.	Blue
<input checked="" type="checkbox"/> CYLINDER LOW	Purple
<input checked="" type="checkbox"/> CYLINDER HIGH	Green
<input checked="" type="checkbox"/> CARD/HEAD	Green
<input checked="" type="checkbox"/> DESCRIBE	Blue

Buttons: OK, Cancel, Default, Help

In the packet part, users can set the items and colors as users' requirements.

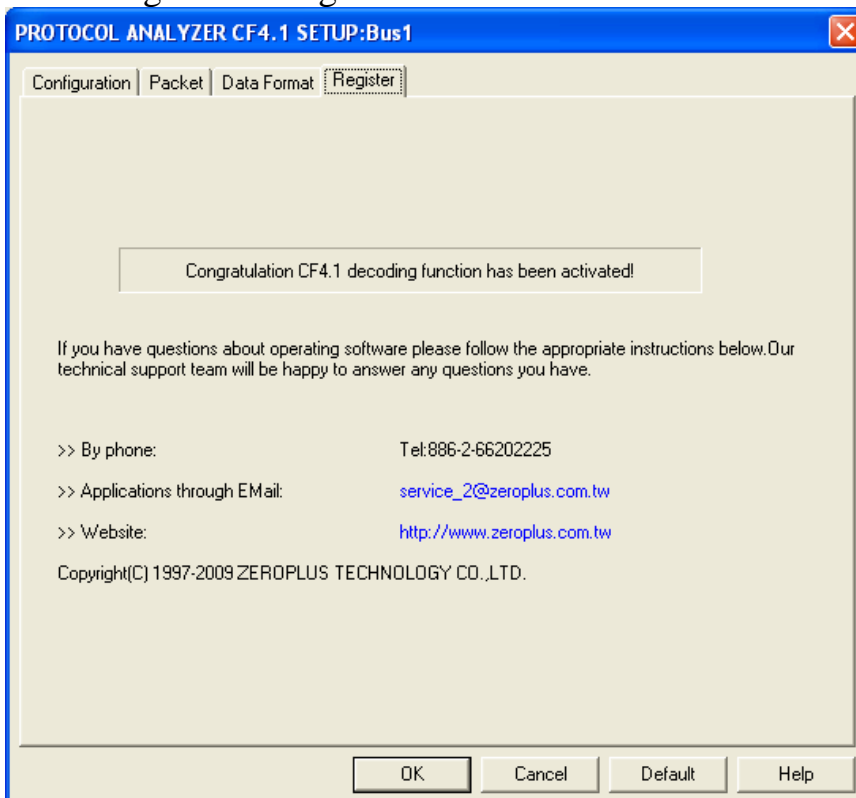


CF4.1 Data Format Dialog Box



Users can set the Data Format of the TASK FILE and DATA as their requirements. When selecting the option, Activate, the data formats are decided by the settings in the Protocol Analyzer; when not selecting the option, Activate, the data formats are decided by the settings in the main program.

CF4.1 Register Dialog Box

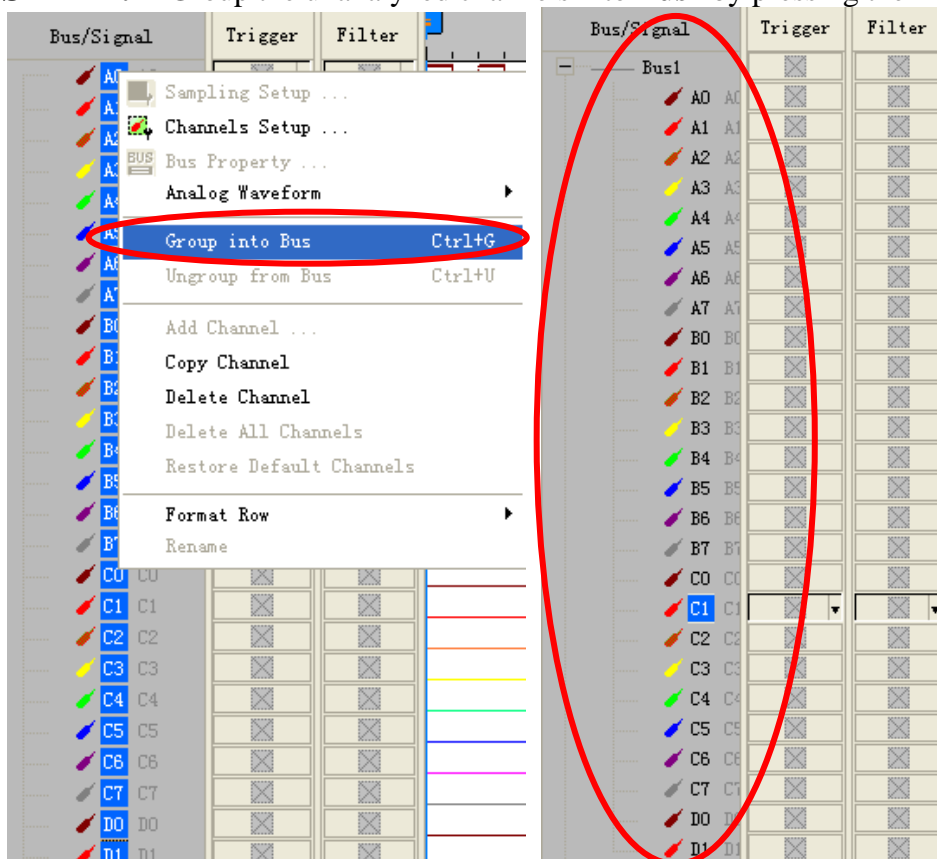


There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

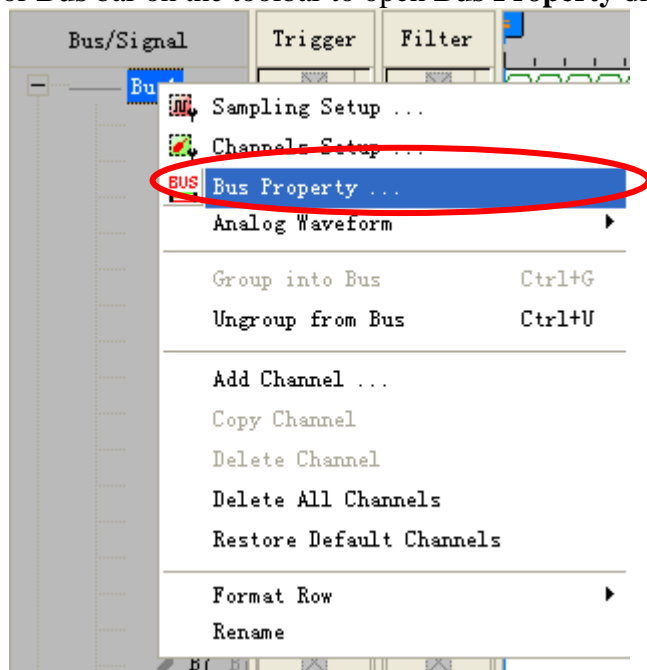


3 Operating Instructions

STEP 1. Group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse.

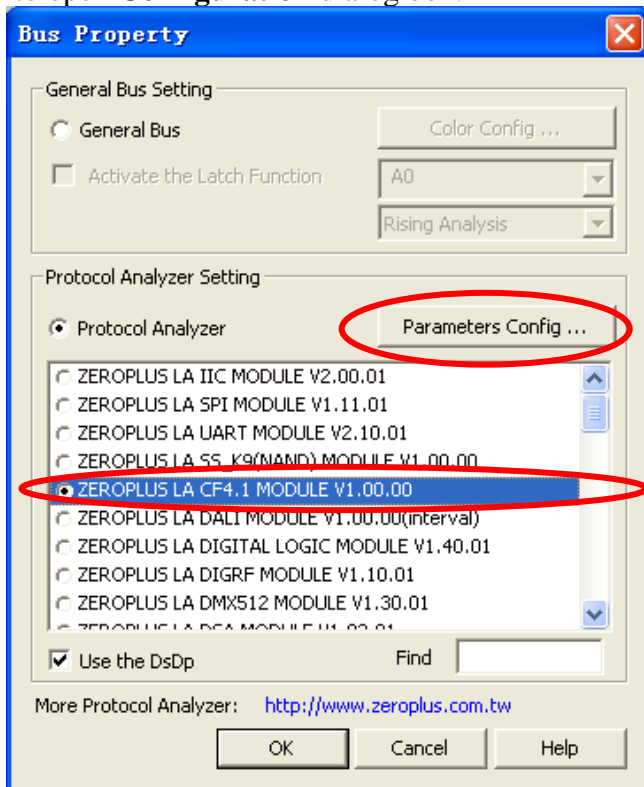


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus bar** on the toolbar to open **Bus Property** dialog box.

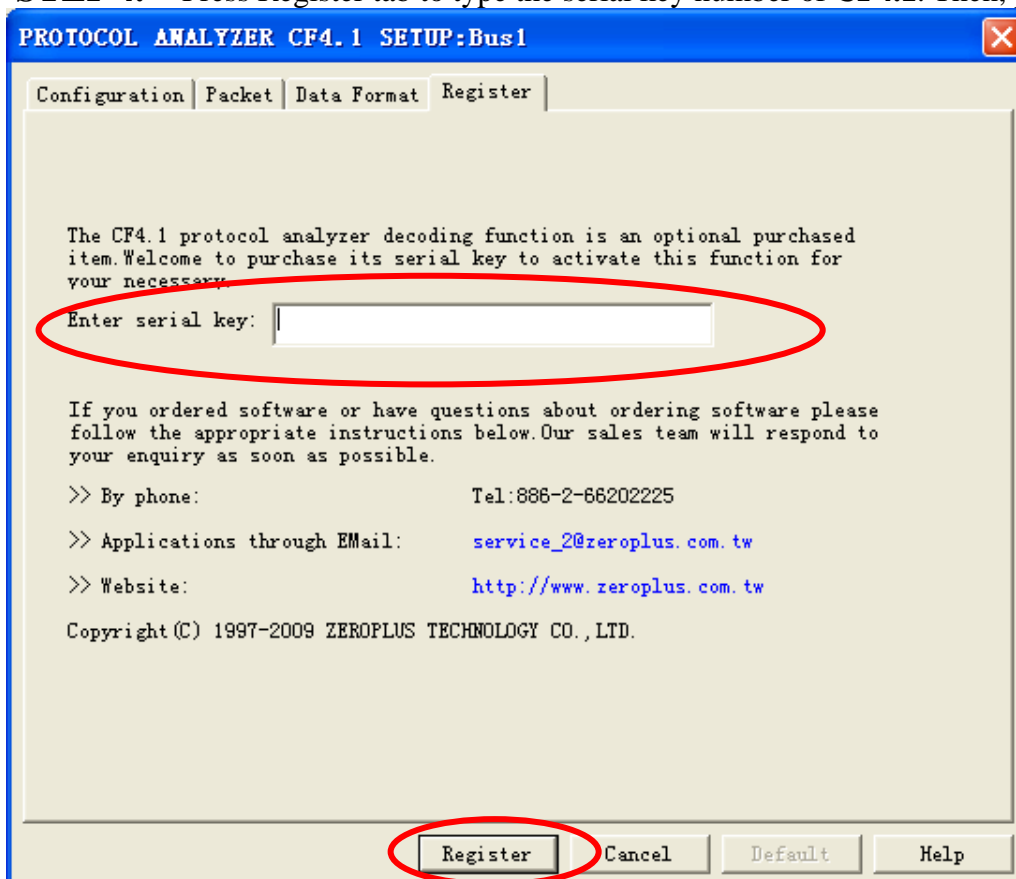




STEP 3. For Protocol Analyzer CF4.1 Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA CF4.1 MODULE V1.00.00**. Next click **Parameters Configuration** to open **Configuration** dialog box.

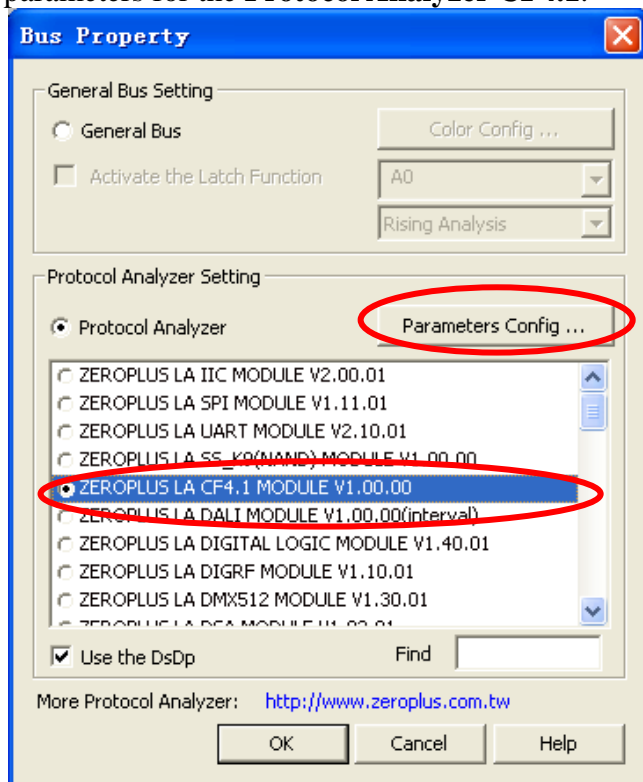


STEP 4. Press Register tab to type the serial key number of CF4.1. Then, press **Register**.

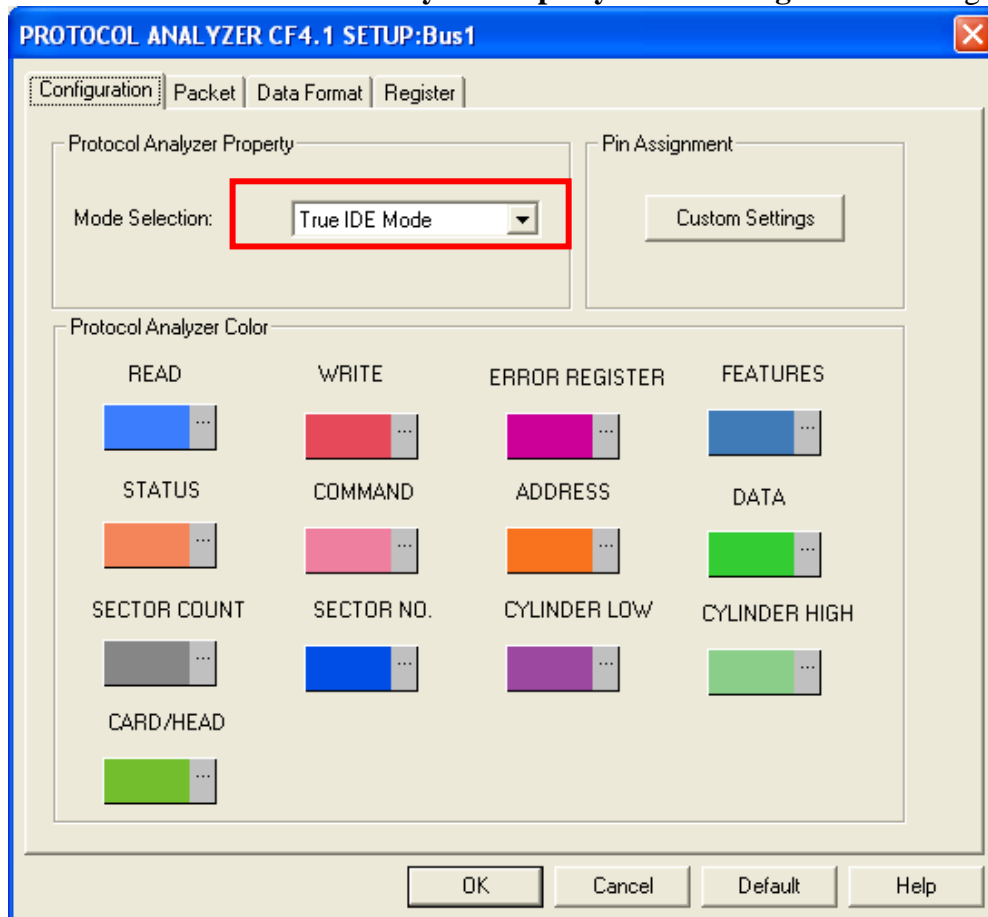




STEP 5. Click **Parameters Configuration** again, and open the Configuration dialog box to set the parameters for the **Protocol Analyzer CF4.1**.

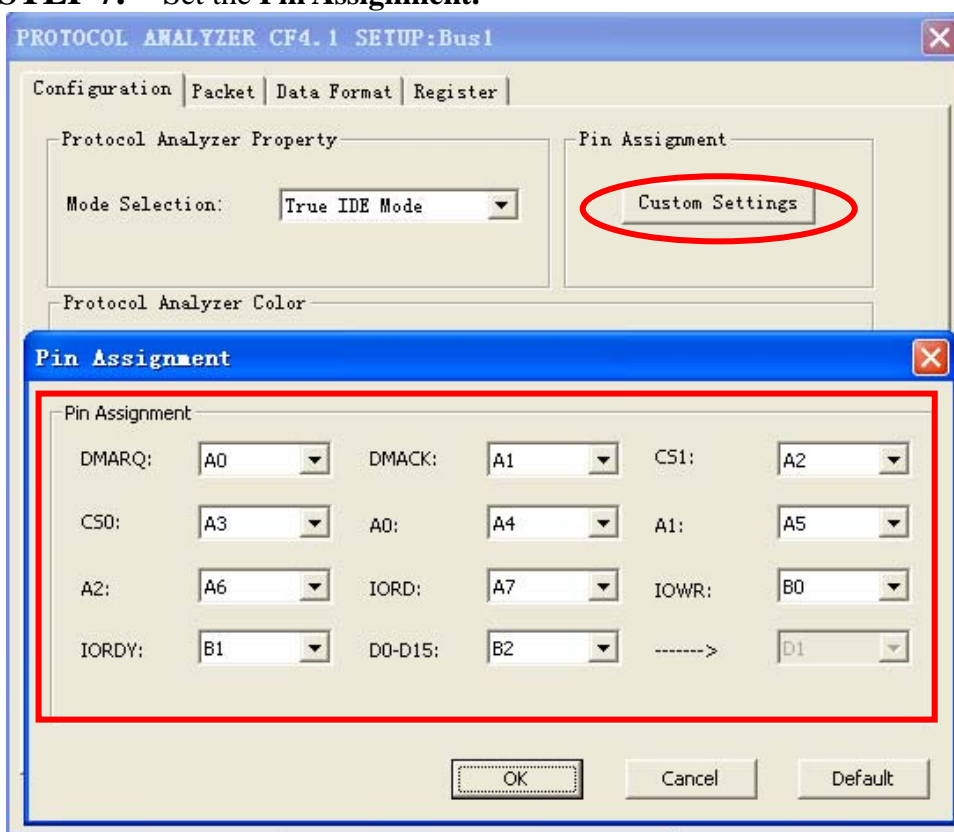


STEP 6. Set the **Protocol Analyzer Property** in the **Configuration** dialog box.

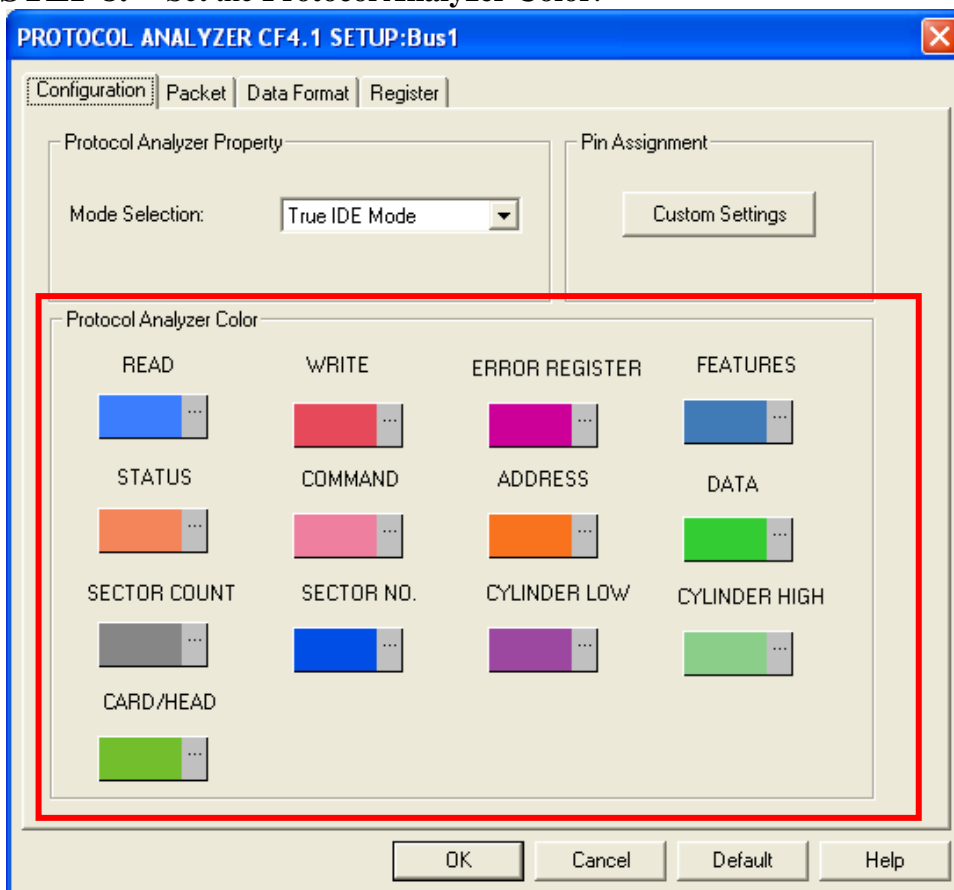




STEP 7. Set the Pin Assignment.



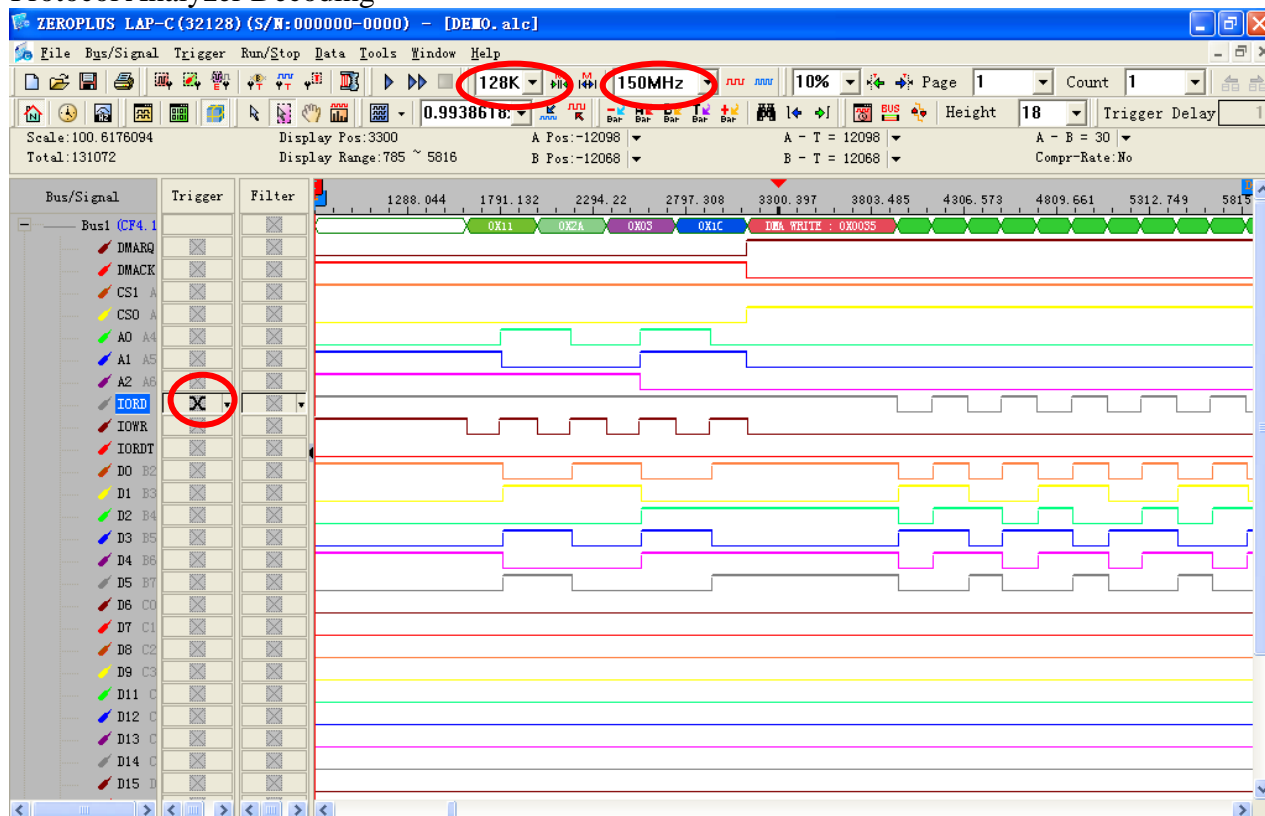
STEP 8. Set the Protocol Analyzer Color.





STEP 9. Following pictures show the completion of the protocol analyzer decoding and the packet list. The trigger condition is set as Either Edge; the memory depth is 128K; the sampling frequency is 150MHz.

Protocol Analyzer Decoding





Packet List

